

Appl. No. 10,051,401
Atty. Docket No. 8401
Amdt. dated October 14, 2005
Reply to Office Action of July, 14, 2005
Customer No. 27752

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An anhydrous treatment composition comprising:
 - a) a reactive agent comprising a reactive group chemically bonded to, wherein said reactive agent additionally comprises a cosmetically active functional group, and,
 - b) a solvent in which the reactive agent is soluble and which is water-miscible.
2. (Original) An anhydrous treatment composition according to Claim 1 which comprises from about 0.01% to about 10%, by weight of the composition, of the reactive agent, and from about 25% to about 95%, by weight of the composition, of the water-miscible solvent.
3. (Original) An anhydrous treatment composition according to Claim 2, wherein the reactive agent is selected from the group consisting of electrophilic groups, nucleophilic groups or protected thiol groups.
4. (Canceled)
5. (Previously presented) An anhydrous treatment composition according to Claim 1, wherein the reactive agent comprises an electrophilic reactive group selected from the group consisting of halotriazines, haloquinoxalines, halopyrimidines, vinylsulfones, β -haloethylsulfones, β -sulfatoethylsulfones, acrylates, methacrylates, acrylamides, methacrylamides, maleimides, epoxides, acylhalides, esters, carbamates, dithiocarboxylic acid esters, alkoxysilanes, thiosulfates, anhydrides, urea derivatives, isothiocyanates, isocyanates, lactones, thiosulfates, isothiuroniums, azalactones and mixtures thereof.

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6. (Previously presented) An anhydrous treatment composition according to Claim 1, wherein the reactive agent comprises a nucleophilic reactive group selected from the group consisting of thiols, thiolates, thiols or thiolates containing quaternary salts, thioalkyl esters, thioalkylamides, thiol or thiolate derivatives of cysteamine, and mixtures thereof.
7. (Currently amended) An anhydrous treatment composition according to Claim 1, wherein the reactive agent comprises a compound ~~protected thiol reactive group~~ having the formula
- $$R-(S-Pr)_m$$
- where R is a mono or multivalent cosmetically active functional group, S is sulfur, Pr is a protecting group and m is an integer between 1 and 100.
8. (Original) An anhydrous treatment composition according to Claim 7, wherein the protecting group is selected from the group consisting of heterocyclic protecting groups, sp^2 aliphatic trigonal carbon protecting groups, sp^3 carbon electrophilic protecting groups, phosphorus protecting groups, metal based protecting groups, non-metal and metalloid based protecting groups other than phosphorus, energy-sensitive protecting groups and mixtures thereof.
9. (Original) An anhydrous treatment composition according to Claim 1, wherein the water-miscible solvent has a Vaughan Solubility Parameter of from about 8.0 $(\text{cal}/\text{cm}^3)^{0.5}$ to about 17.0 $(\text{cal}/\text{cm}^3)^{0.5}$.
10. (Original) An anhydrous treatment composition according to Claim 1, wherein the water-miscible solvent is selected from the group consisting of ethyl formate, dimethyl isosorbide, acetylacetone, 2-butanone, acetone, methyl acetate, ethyl acetate, propyl acetate, ethoxyethanol, dipropylene glycol monomethyl ether, butyl lactate, t-butyl alcohol, phenyl acetate, 2-propoxyethanol, 2-isopropoxyethanol, methoxypropanol, isopropyl lactate, hexyl alcohol, butoxyethanol, tripropylene glycol (PPG-3), triacetin, methoxyethanol, isopropyl alcohol, PEG-8, methyl

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lactate, PEG-6, PEG-5, PEG-4, N-methylpyrrolidone, propyl alcohol, dipropylene glycol (PPG-2), acetonitrile, phenoxyethanol, triethylene glycol, hexylene glycol, ethyl alcohol, γ -butyrolactone, butylene glycol, propylene carbonate, dimethyl sulfoxide, diethylene glycol, ethoxydiglycol, propylene glycol, pyrrolidone, pyrrolidone-2, methyl alcohol, ethylene carbonate, ethylene glycol, acetamide, glycerin, butyl carbitol, 1,3-dioxolane, dimethoxymethane, 1,2-hexanediol, dipropylene glycol butyl ether, dipropylene glycol t-butyl ether, propionaldehyde, diethoxymethane, glycerol formal, γ -valerolactone, β -methyl- γ -butyrolactone, and butyl acetate, ethanol, isopropyl alcohol, and mixtures thereof.

11. (Previously presented) An anhydrous treatment according to Claim 10, wherein the water-miscible solvent is selected from the group consisting of N-methylpyrrolidinone, propylene carbonate, γ -butyrolactone, γ -valerolactone, propylene glycol, dipropylene glycol, ethoxydiglycol, ethoxyethanol, dimethoxymethane, dimethyl isosorbide, butyl lactate, and mixtures thereof.

Claims 12-30 (withdrawn).

31. (New) An anhydrous treatment composition comprising:
- a) a reactive agent comprising a reactive group chemically bonded to both a cosmetically active functional group and a protecting group; and
 - b) a solvent in which the reactive agent is soluble and which is water-miscible.
32. (New) An anhydrous treatment composition comprising:
- a) a reactive agent comprising a protected thiol reactive group of the pyrimidinium type chemically bonded to a silicone hair conditioning cosmetic functional group; and
 - b) a solvent in which the reactive agent is soluble and which is water-miscible.